

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A process for the preparation of a ~~microencapsulated~~ composition containing at least one microencapsulated lipophilic compound comprising:
 - (i) particle size reduction of the lipophilic compound, in the presence of (1) a surface active agent and (2) water or a water miscible solvent or a mixture thereof, to provide a first composition comprising an emulsion or suspension of surface active coated lipophilic particle in said water or water miscible solvent or mixture thereof;
 - (ii) providing a solution of alkali metal alginate;
 - (iii) combining said first composition and the alkali metal alginate solution to provide a second composition;
 - (iv) adding dropwise the second composition to a solution containing Ca^{2+} , thereby obtaining beadlets having a second coating of Calcium alginate, and removing the formed beadlets from said solution;

(v) rinsing the beadlets with an 0.1% to 10% acidic solution and drying said beadlets to obtain dried beadlets;
and

(vi) coating the dried beadlets with a third coating material to obtain microcapsules containing said lipophilic compound, said coating material being of vegetable origin and being selected from the group consisting of cellulose derivatives, waxes, fats, proteins and polysaccharides.

2. (Original) A process according to claim 1, wherein the particle size of the lipophilic compound is reduced to a particle size not greater than 20 μm .

3. (Original) A process according to claim 2 wherein the particle size of the lipophilic compound is reduced to a particle size not greater than 10 μm .

4. (Original) A process according to claim 1, wherein the alkali metal alginate is sodium or potassium alginate.

5. (Original) A process according to claim 1 wherein a filler is added to stage (i).

6. (Previously Presented) A process according to claim 1, wherein the lipophilic compound is selected from the

group consisting of lycopene, beta and alpha-carotene, lutein, astaxanthin, zeaxanthin, vitamin A, vitamin E, vitamin D, omega 3 oils, omega 6 oils and mixtures thereof.

7. (Original) A process according to claim 1 wherein a filler is added to stage (ii).

8. (Original) A process according to claim 1, wherein the lipophilic compound containing alginate beadlets are in the size range of 100 to 425 μm .

9. (Previously Presented) A process according to claim 1 wherein the acidic solution is an acidic aqueous solution of an acid selected from the group consisting of citric, aspartic, acetic, ascorbic, lactic, phosphoric and hydrochloric acids.

10. (canceled)

11. (currently amended) A process according to ~~claim 10~~ claim 1, wherein the third coating is said cellulose derivative is comprising hydroxypropylcellulose.

12. (canceled)

13. (currently amended) A microencapsulated composition comprising of one or more lipophilic compounds enveloped by a surfactant agent, encapsulated in an alginate

matrix providing beadlets of size about 100 μ m to 450 μ m, and
further coated with an outer coating of vegetable origin,
wherein the particle size of the lipophilic substance is not
greater than 20 μ m.

14. (Previously Presented) A composition according
to claim 13 wherein the lipophilic compound is selected from
the group consisting of lycopene, beta and alpha-carotene,
lutein, astaxanthin, zeaxanthin, vitamin A, vitamin E, vitamin
D, omega 3 oils, omega 6 oils and mixtures thereof.

15. (Original) A composition according to claim 13
wherein the particle size of the lipophilic compound is not
greater than 10 μ m.

16. (Original) A composition according to claim 15
wherein the particle size not greater than 5 μ m.

17. (Original) A composition according to claim 13
wherein the size of the microcapsules is in the range of 50 μ m
to 950 μ m.

18. (Original) A composition according to claim 17
wherein the size of the microcapsules is in the range of 100
 μ m to 450 μ m.

19. (Original) A composition according to claim 13 comprising 0.1% to 40% of a lipophilic compound or mixtures thereof.

20. (Previously Presented) A composition according to claim 13 wherein the outer coating is a material selected from the group consisting of cellulose derivatives, waxes, fats, proteins and polysaccharides.

21. (Previously Presented) A composition according to claim 19 wherein the outer coating is hydroxypropyl-cellulose.

22. (Original) A composition according to claim 13 wherein said composition is tablet grade.

23. (Original) A method for incorporating lipophilic compounds in food stuff comprising of encapsulating the lipophilic compound according to the process of claim 1 and adding the encapsulated composition to food stuff.

24. (Original) A method for masking the flavor and/or smell of lipophilic compounds comprising encapsulating the lipophilic compound according to the process of claim 1.

25. (Currently Amended) A process for preparing a ~~microencapsulated~~ composition containing at least one microencapsulated liquid lipophilic compound, comprising:

(i) particle size reduction of the liquid lipophilic compound, in the presence of a surface active agent, and optionally a filler in a liquid medium of (1) water, (2) a water-miscible liquid, or (3) a mixture of water and a water-miscible liquid, thereby providing a suspension or emulsion wherein ~~the particle size particles~~ of the lipophilic compound ~~is have a particle size not greater than 10 μ m and the~~ particles are coated with a first coating of said surface active agent;

(ii) providing a solution of an alkali metal alginate optionally containing a filler;

(iii) combining said suspension or emulsion and the solution of alkali metal alginate to provide a second suspension or emulsion;

(iv) adding dropwise the second suspension or emulsion to a solution containing Ca^{2+} thereby obtaining beadlets in liquid, said beadlets having a second coating of calcium alginate thereon and having a size of about 100 μ m to 450 μ m, and removing said beadlets from said liquid;

(v) rinsing said beadlets with an 0.1% to 10% acidic solution and drying said beadlets to obtain dried beadlets;

(vi) coating the dried beadlets with a coating material to provide a third coating, thereby obtaining microcapsules of ~~100-450 μ m~~ 50-950 μ m in particle size

containing said lipophilic compound, wherein said
microcapsules comprise said second and third coatings, wherein
said coating material is of vegetable origin.

26. (new) The method of claim 1, wherein said
rinsing of said beadlets with an acidic solution is sufficient
to effect shrinkage of said beadlets.

27. (new) The process of claim 1, wherein said
solution of alkali metal alginate comprises 0.5% to 10% of an
alkali metal alginate in water; and

said solution containing Ca^{2+} contains 0.2% to 5% of
 Ca^{2+} .